1

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANTS: Graves, Scott S.
 Reno, John M.
 Mallett, Robert W.
 Hylarides, Mark D.
 Searle, Stephen M.J.
 Henry, Andrew H.
 Pedersen, Jan T.
 Rees, Anthony R.
- (ii) TITLE OF INVENTION: HUMANIZED ANTIBODIES THAT BIND TO THE ANTIGEN BOUND BY ANTIBODY NR-LU-13 AND THEIR USE IN PRETARGETING METHODS
- (iii) NUMBER OF SEQUENCES: 19
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Seed IP Law Group
 - (B) STREET: 701 Fifth Avenue, Suite 6300
 - (C) CITY: Seattle
 - (D) STATE: Washington
 - (E) COUNTRY: USA
 - (F) ZIP: 98104
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: compact disc
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US
 - (B) FILING DATE: 25-FEB-2004
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Sharkey Ph.D., Richard G.
 - (B) REGISTRATION NUMBER: 32,629
 - (C) REFERENCE/DOCKET NUMBER: 690022.527C4
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (206) 622-4900
 - (B) TELEFAX: (206) 682-6031
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CCTĢACGAAT TCGTTGACAT TGATTATTGA C	31
(2) INFORMATION FOR SEQ ID NO:2:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
CCTGACGCGG CCGCTTCGAT AAGCCAGTAA GC	32
(2) INFORMATION FOR SEQ ID NO:3:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GTTCGGCTCG AGCACAGCTA GCATTATCTG GGATAAGCAT GCTG	4 4
(2) INFORMATION FOR SEQ ID NO:4:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
GTTACGGGGC CCCTAACACT CTCCCCTGTT GAAG	34
(2) INFORMATION FOR SEQ ID NO:5:	

	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:5:	
GTA	CGCGG.	GAT CCCAGACACT GGACGCTG	28
(2)	INFO	DRMATION FOR SEQ ID NO:6:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:6:	
CAT'	TCGGA	AAT TCGAACCATC ACAGTCTCGC	30
(2)	INFO	DRMATION FOR SEQ ID NO:7:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
•	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GCT	GACGA.	AAT TCTCATTTAC CCGGAGACAG GGAG	34
(2)	INFO	DRMATION FOR SEQ ID NO:8:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CCGTCTATTA CTGTTCTAGA GAGGTC	26
(2) INFORMATION FOR SEQ ID NO:9:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CAGCGTGCGG CCGCACCATG GACATCAGGG CTCCTGCTCA G	41
(2) INFORMATION FOR SEQ ID NO:10:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
AGCAGTACCA AAGCACGTAC CGGGTG	26
(2) INFORMATION FOR SEQ ID NO:11:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
TACGTGCTTT GGTACTGCTC CTC	23
(2) INFORMATION FOR SEQ ID NO:12:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

	(xi) SEQUENCE I	DESCRIPTIO	ON: SEQ	ID NO:12	:		
GCT	SACGGAT CCTCATT	TAC CCGGAG	GACAG GG	AG			34
(2)	INFORMATION FOR	R SEQ ID N	10:13:				
	(B) TYPE (C) STRAI	CHARACTERI TH: 26 bas nucleic NDEDNESS: LOGY: line	se pairs acid single				
	(xi) SEQUENCE I	DESCRIPTIO	ON: SEO	TD NO:13	•		
CCG	CTATTA CTGTTCT		_	10.13	•		26
(2)							20
	(i) SEQUENCE (A) LENGT (B) TYPE (C) STRAN		ISTICS: ase pair acid single	s			
		KEY: CDS	360				
	(xi) SEQUENCE I	DESCRIPTIO	ON: SEQ	ID NO:14	:		
	GTT CAG CTG CAG Val Gln Leu Glr						48
	GTC AGG TTG TCC Val Arg Leu Ser 20						96
	ATG CAC TGG GTG Met His Trp Val				Gly Le		144

			GAT Asp													192
			GCC Ala													240
			AGC Ser													288
			GTC Val 100													336
			GTC Val													360
(2)	INFO	ORMA!	rion	FOR	SEQ	ID N	NO:15	5:								
		(i) S	SEQUE			RACTE										
			(B)	TYI	PE: a	amino GY:]	aci	id	CIU	•						
	(:	ii) N	MOLEC	CULE	TYPE	E: pı	otei	in								
			MOLEC SEQUE			-			Q ID	NO:	15:					
Glu 1	()	ki) S		ENCE	DESC	CRIPT	:NOI	: SE(-			Lys	Pro	Gly 15	Ala	
1	(2 Val	ki) S	SEQUE	ENCE Gln 5	DES(CRIPT	CION:	: SE(Glu 10	Leu	Val			15		
1 Ser	(2 Val Val	ki) S Gln Arg	SEQUE Leu Leu	Gln 5 Ser	DESC Gln Cys	CRIPT	Gly Ala	SEÇ Ala Ser 25	Glu 10 Gly	Leu Phe	Val Asn	Ile	Lys 30	15 Asp	Thr	
1 Ser Tyr	(x Val Val Met	Gln Arg His	EQUE Leu Leu 20	Gln 5 Ser Val	DESC Gln Cys Ile	Ser Thr	Gly Ala Arg 40	Ser 25	Glu 10 Gly Glu	Leu Phe Gln	Val Asn Gly	Ile Leu 45	Lys 30 Glu	15 Asp Trp	Thr Ile	
Ser Tyr Gly	Val Val Met Arg	Gln Arg His : 35	Leu Leu 20	Gln 5 Ser Val	DESC Gln Cys Ile Ala	Ser Thr Glu Asn	Gly Ala Arg 40 Gly	Ser 25 Pro	Glu 10 Gly Glu Thr	Leu Phe Gln Lys	Val Asn Gly Cys 60	Ile Leu 45 Asp	Lys 30 Glu Pro	15 Asp Trp Lys	Thr Ile Phe	
Ser Tyr Gly Gln 65	Val Val Met Arg 50 Gly	Gln Arg His :35 Ile	Leu Leu 20 Trp	Ser Val Pro	DESC Gln Cys Ile Ala Ile 70	Ser Thr Glu Asn 55	Gly Ala Arg 40 Gly Ala	SEÇ Ala Ser 25 Pro Asn	Glu 10 Gly Glu Thr	Leu Phe Gln Lys Ser 75	Val Asn Gly Cys 60 Ser	Ile Leu 45 Asp	Lys 30 Glu Pro	15 Asp Trp Lys Ala	Thr Ile Phe Tyr 80	
Ser Tyr Gly Gln 65 Leu	Val Val Met Arg 50 Gly	Gln Arg His :35 Ile Lys Leu	Leu Leu 20 Trp Asp	Ser Val Pro Thr Ser 85	DESC Gln Cys Ile Ala Ile 70 Leu	Ser Thr Glu Asn 55 Thr	Gly Ala Arg 40 Gly Ala Ser	SEC Ala Ser 25 Pro Asn Asp	Glu 10 Gly Glu Thr Thr	Leu Phe Gln Lys Ser 75	Val Asn Gly Cys 60 Ser	Ile Leu 45 Asp Asn	Lys 30 Glu Pro Thr	15 Asp Trp Lys Ala Tyr 95	Thr Ile Phe Tyr 80 Cys	

(2) INFORMATION FOR SEQ ID NO:16:

i	1 1	SECUENCE	CHARACTERISTICS	
١	۱.) SECUENCE	CHARACIERISTICS	÷

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1..321

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

			CAG Gln						48
			TCT Ser						96
			CAG Gln	 	 	 	 	 	144
			TTA Leu						192
			GAT Asp 70					 	240
_			TAT Tyr						288
			ACC Thr						321

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 107 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Asp Ile Gln Met Ile Gln Ser Pro Ser Ser Met Phe Ala Ser Leu Gly 1 5 10 15

Asp Arg Val Ser Leu Ser Cys Arg Ala Ser Gln Gly Ile Arg Gly Asn 20 25 30

Leu Asp Trp Tyr Gln Gln Lys Pro Gly Gly Thr Ile Lys Leu Leu Ile 35 40 45

Tyr Ser Thr Ser Asn Leu Asn Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Asp Ser 65 70 75 80

Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Arg Asn Ala Tyr Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys 100 105

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 107 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Gly Asn 20 25 30

Leu Asp Trp Tyr Gln Gln Lys Pro Gly Lys Gly Pro Lys Leu Leu Ile 35 40 45

Tyr Ser Thr Ser Asn Leu Asn Ser Gly Val Pro Ser Arg Phe Ser Gly 50 60

Ser Gly Ser Gly Ser Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

Glu Asp Phe Ala Thr Tyr Cys Leu Gln Arg Asn Ala Tyr Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 120 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Thr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met 35 40 45

Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Lys Cys Asp Leu Ser Phe 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Ile Asn Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ser Arg Glu Val Leu Thr Gly Thr Trp Ser Leu Asp Tyr Trp Gly Gln 100 105 110

Gly Thr Leu Val Thr Val Ser Ser 115 120